

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number
WO 2005/014103 A2

(51) International Patent Classification⁷: **A61N**

[US/US]; 210 S. Fifth Street, Mount Horeb, WI 53572 (US).

(21) International Application Number:

PCT/US2004/025807

(74) Agent: BAXTER, William, K.; Godfrey & Kahn, S.C., 780 N. Water Street, Milwaukee, WI 53202 (US).

(22) International Filing Date: 9 August 2004 (09.08.2004)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

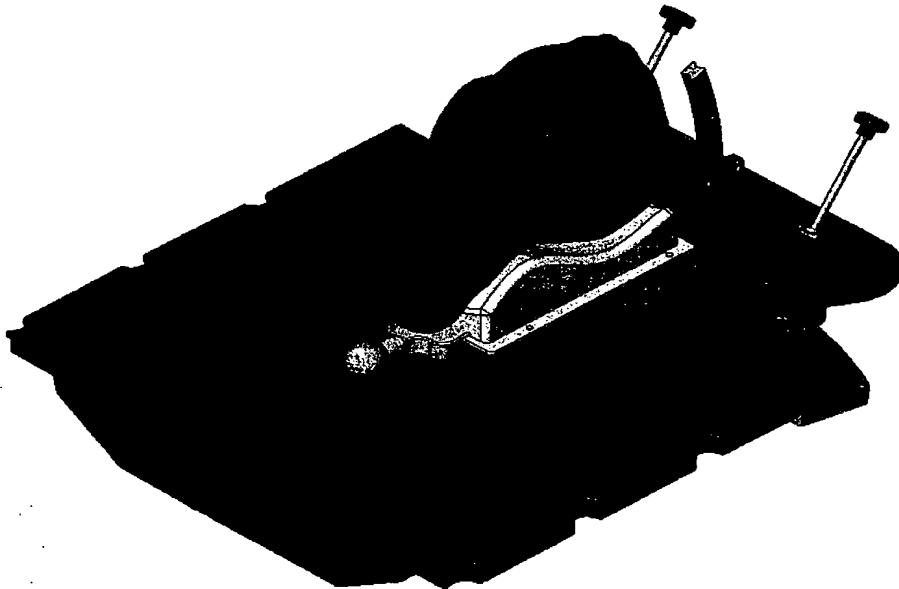
(26) Publication Language: English

(30) Priority Data:
60/493,596 8 August 2003 (08.08.2003) US

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: STEREOTACTIC UPPER BODY FIXATION AND POSITIONING DEVICE



(57) Abstract: The present invention provides a positioning device for radiation therapy equipment. In particularly, a stereotactic upper body fixation and positioning device for use in conjunction with a patient positioning couch and delivery system of a radiation therapy machine to provide precise, verifiable, and adjustable positioning in the three rotational axes of movement referred to as roll, pitch and yaw.

BEST AVAILABLE COPY



Published:

— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number
WO 2005/014103 A3

(51) International Patent Classification⁷: A61B 19/00

(21) International Application Number:
PCT/US2004/025807

(22) International Filing Date: 9 August 2004 (09.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/493,596 8 August 2003 (08.08.2003) US

(71) Applicant (for all designated States except US): TO-MOTHERAPY INCORPORATED [US/US]; 1420 Deming Way, Madison, WI 53717-1954 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SCHLOESSER, Adam [US/US]; 204 S. 8th Street, Mount Horeb, WI 53572 (US). DARLEY, Jesse [US/US]; 4345 Bagley Parkway, Madison, WI 53705 (US). HUGHES, John

[US/US]; 7213 W. Valhalla Way, Madison, WI 53719 (US). OLIVERA, Gustavo [AR/AR]; 6221 Dominion Drive, Madison, WI 53718 (US). SCHLOESSER, Eric [US/US]; 210 S. Fifth Street, Mount Horeb, WI 53572 (US).

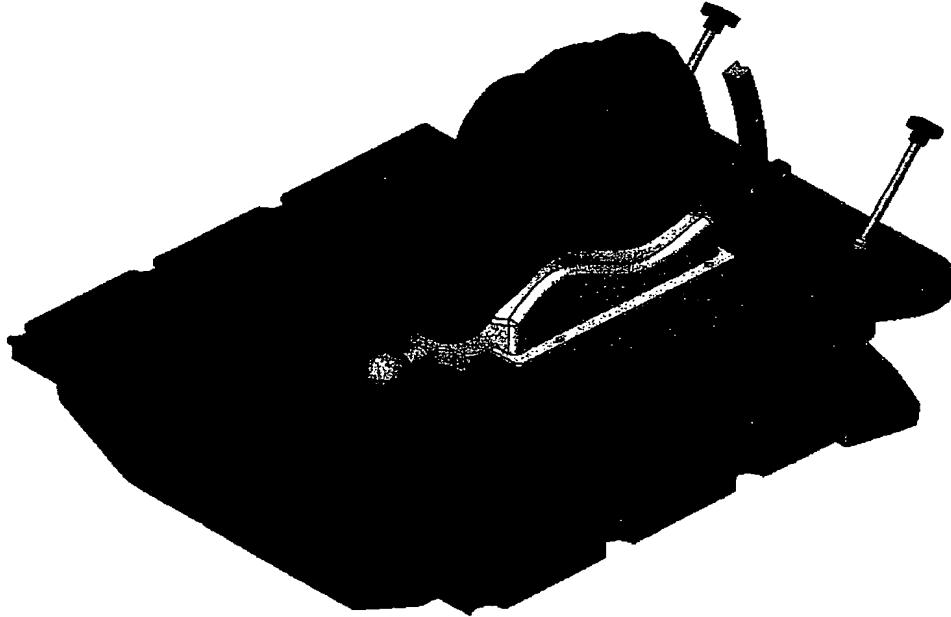
(74) Agent: BAXTER, William, K.; Godfrey & Kahn, S.C., 780 N. Water Street, Milwaukee, WI 53202 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: STEREOTACTIC UPPER BODY FIXATION AND POSITIONING DEVICE



WO 2005/014103 A3

(57) Abstract: The present invention provides a positioning device for radiation therapy equipment. In particular, a stereotactic upper body fixation and positioning device for use in conjunction with a patient positioning couch and delivery system of a radiation therapy machine to provide precise, verifiable, and adjustable positioning in the three rotational axes of movement referred to as roll, pitch and yaw.



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
4 August 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.